

What is claimed is:

1. A method of increasing hematopoietic stem cell production in a subject comprising a step of administering a TPO mimetic compound to said subject.
2. A method of providing hematopoietic stem cells to a subject comprising the  
5 steps of:
  - administering a TPO mimetic compound to a subject to enhance expansion of a stem cell population within bone marrow and/or mobilize stem cells in peripheral circulation;
  - harvesting one or more of the bone marrow stem cells or the stem cells in the  
10 peripheral circulation; and
  - transplanting the harvested stem cells into the subject.
3. The method of claims 1 and 2, wherein the subject is a human.
4. The method of claim 2, wherein the one or more stem cells are cryopreserved after harvesting.
- 15 5. The method of claim 4, wherein the one or more cryopreserved stem cells are thawed and determined to be viable prior to transplanting the stem cells into the subject.
6. The method of claim 4, wherein the one or more stem cells are transplanted into the subject when the subject is in need of such transplantation.
- 20 7. The method of claims 1 and 2, wherein the TPO mimetic compound has reduced immunogenicity relative to one or more of rhTPO and rhIL-11.
8. The method of claims 1 and 2 wherein the TPO mimetic compound has an improved PK profile relative to one or more of rhTPO and rhIL-11.
9. A method of reducing a time to engraftment following reinfusion of stem cells  
25 in a subject comprising the steps of:
  - administering a TPO mimetic compound to the subject;
  - enhancing the expansion of the stem cell population within bone marrow and/or mobilizing the stem cells in peripheral circulation; and

- harvesting one or more of the bone marrow stem cells or one or more of the stem cells in the peripheral circulation; and
- transplanting the one or more harvested stem cells into the subject.
10. A method of reducing the incidence of delayed primary engraftment comprising the steps of:
- 5 administering a TPO mimetic compound to the subject;
- enhancing the expansion of the stem cell population within bone marrow and/or mobilizing the stem cells in peripheral circulation; and
- 10 harvesting one or more of the bone marrow stem cells or one or more of the stem cells in the peripheral circulation; and
- transplanting the one or more harvested stem cells into the subject.
11. A method of reducing the incidence of secondary failure of platelet production comprising the steps of:
- administering a TPO mimetic compound to the subject;
- 15 enhancing the expansion of the stem cell population within bone marrow and/or mobilizing the stem cells in peripheral circulation; and
- harvesting one or more of the bone marrow stem cells or one or more of the stem cells in the peripheral circulation; and
- transplanting the one or more harvested stem cells into the subject.
- 20 12. A method of reducing the time of platelet and/or neutrophil engraftment following reinfusion of stem cells in a subject comprising the steps of:
- administering a TPO mimetic compound to the subject;
- enhancing the expansion of the stem cell population within bone marrow and/or mobilizing the stem cells in peripheral circulation; and
- 25 harvesting one or more of the bone marrow stem cells or one or more of the stem cells in the peripheral circulation; and
- transplanting the one or more harvested stem cells into the subject.